

AMENDMENTS TO THE CLAIMS:

This listing of the claims will replace all prior versions, and listings, of the claims in this application.

Listing of Claims:

1. (Previously Presented) An apparatus, comprising:

a processor configured to perform first interpolation processing steps on input image data so as to prepare a first output image data;

a retrieval module configured to intermittently remove at least a part of interpolation processing performed in the first interpolation processing steps from the first output image data; and

the processor further configured to perform at least one of a second interpolation processing step on data obtained in the removal process so as to prepare a second output image data.

2. (Currently Amended) The apparatus according to claim 1, further comprising a camera module including a lens, an image sensor and a camera ~~DSP~~ digital signal processor, wherein

the camera ~~DSP~~ digital signal processor includes a color corrector, a gamma corrector, a color interpolator, and an image quality corrector,

wherein the camera module produces the first output image data, and

wherein the retrieval module performs intermittent processing steps on pixels that are interpolated by the color corrector of the camera ~~DSP~~ digital signal processor so as to minimize affects due to a color correction process and an image quality correction process that are performed by the camera ~~DSP~~ digital signal processor; and
the processor further configured to perform an arbitrary color interpolation processing step and an arbitrary image quality correction step that ~~are more complicated~~ require an increased amount of operational processing and a greater amount of processing line memory than the removed interpolation step.

3. (Currently Amended) The apparatus according to claim 2, wherein the retrieval module is further configured to recognize an arrangement pattern for color filters that are laid on the image sensor, to separate color elements of pixels generated during the first interpolation processing steps from color elements of pixels used to produce those color elements, and to selectively perform the intermittent processing steps for the color elements of the pixels generated during the first interpolation processing steps.

4. (Currently Amended) A method, comprising:

performing first interpolation processes on input image data so as to prepare a first output image data;

performing intermittent processes to remove at least a part of the first interpolation processes from the first output image data; and

performing at least one second interpolation process on data obtained in the intermittent processes so as to prepare a second output image data.

5. – 8. (Cancelled)

9. (Currently Amended) The method of claim 4, wherein the intermittent processes comprise a process performed on pixels that are interpolated by a color corrector so as to minimize affects due to a color correction process, an image quality correction process that are performed by a camera DSP digital signal processor, an arbitrary color interpolation process; and an arbitrary image quality correction process that ~~is more complicated~~ require an increased amount of operational processing and a greater amount of processing line memory than the removed interpolation step.

10. (Previously Presented) The method of claim 9, wherein the performing intermittent processing further comprises recognizing an arrangement pattern for color filters that are laid on the image sensor, separating color elements of pixels generated during the first interpolation processes from color elements of pixels used to produce those color elements, and selectively processing color elements of pixels generated during the first interpolation

S.N.: 10/519,857
Art Unit: 2624

processes.

11. (Previously Presented) The apparatus of claim 1 embodied in an information terminal.